

No internet connection

Name: M. Umer farooq | Quiz Subject:
Biology

Time Remaining: 45/45 (Minutes)

Q.1

Test 4 Biological Molecules

Biology Unit Wise

Evaporation of 2ml out of one liter of water lowers the temperature of the remaining 998ml by:

- (a) 4°C
(c) 1°C

- (b) 10°C
(d) 2°C

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Correct Answer:

- ☐ A ☐ B ☐ C ☐ D

Next

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Time Remaining: 44/45 (Minutes)

Q.2

Test 4 Biological Molecules

Biology Unit Wise

Total number of 'OH' in sucrose is:

- (a) 11
(c) 10

- (b) 8
(d) 9

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Correct Answer:

☒ A ☐ B ☐ C ☐ D

Next

Back



Time Remaining: 44/45 (Minutes)

Q.3

Test 4 Biological Molecules

Biology Unit Wise

Milk sugar is:

- (a) Monosaccharide (b) Disaccharide
(c) Oligosaccharide (d) Polysaccharide

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Correct Answer:

☒ A ☐ B ☐ C ☐ D

Next

Back

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Time Remaining: 44/45 (Minutes)

Q.4

Test 4 Biological Molecules

Biology Unit Wise

Which of the following carbohydrate does not give colour with iodine?

- (a) Amylose (b) Amylopectin
(c) Glycogen (d) Cellulose

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Correct Answer:

☒ A ☐ B ☐ C ☐ D

Next

Back



Time Remaining: 43/45 (Minutes)

Q.5

Test 4 Biological Molecules

Biology Unit Wise

A reducing sugar is that which has:

- (a) Free aldehyde group
- (b) Free aldehyde or ketone group
- (c) Free ketone group
- (d) None of these

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Correct Answer:



A



B



C



D

Next

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No internet connection

Time Remaining: 42/45 (Minutes)

Q.6

Test 4 Biological Molecules

Biology Unit Wise

Which biomolecule has most of the carbon of biosphere?

- (a) Chitin (b) Starch
(c) Cellulose (d) Glycogen

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Correct Answer:

☒ A ☐ B ☐ C ☐ D

Next

Back



Time Remaining: 42/45 (Minutes)

Q.7

Test 4 Biological Molecules

Biology Unit Wise

Tetroses are rare in nature and they occur in some:

- (a) Fungi (b) Bacteria
(c) Protists (d) Bryophytes

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Correct Answer:

☒ A ☐ B ☐ C ☐ D

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Time Remaining: 42/45 (Minutes)

Q.8

Test 4 Biological Molecules

Biology Unit Wise

From the biological point of view, the most important hexose is:

- (a) Glucose (b) Fructose
(c) Mannose (d) Galactose

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Correct Answer:

☒ A ☐ B ☐ C ☐ D

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Time Remaining: 41/45 (Minutes)

Q.9

Test 4 Biological Molecules

Biology Unit Wise

Dextrins are:

- (a) Proteins (b) Lipids
(c) Derived proteins (d) Carbohydrates

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Correct Answer:

☒ A ☐ B ☐ C ☐ D

Next

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Time Remaining: 41/45 (Minutes)

Q.10

Test 4 Biological Molecules

Biology Unit Wise

The most synthesized substance in nature by living organisms is:

- (a) Chitin (b) Starch
(c) Cellulose (d) Glycogen

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Correct Answer:

☒ A ☐ B ☐ C ☐ D

Next

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Time Remaining: 41/45 (Minutes)

Q.11

Test 4 Biological Molecules

Biology Unit Wise

How many molecules of water are released during the polymerization of a 20 monomer-long cellulose molecule?

(a) 10

(b) 19

(c) 20

(d) 40

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Correct Answer:



A



B



C



D

Next

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No internet connection

Time Remaining: 40/45 (Minutes)

Q.12

Test 4 Biological Molecules

Biology Unit Wise

One which is not the true polymer of its monomers:

- (a) DNA
(c) Lipids

- (b) Proteins
(d) None of these

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Correct Answer:

☒ A ☐ B ☐ C ☐ D

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Time Remaining: 40/45 (Minutes)

Q.13

Test 4 Biological Molecules

Biology Unit Wise

Lipids are insoluble in water because lipid molecules are:

- (a) Hydrophilic (b) Hydrophobic
(c) Neutral (d) None of these

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Correct Answer:

☒ A ☐ B ☐ C ☐ D

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Time Remaining: 39/45 (Minutes)

Q.14

Test 4 Biological Molecules

Biology Unit Wise

Phosphatidic acid is composed of:

- (a) 2 glycerol, 2 fatty acids & 1 phosphoric acid
- (b) 2 glycerol, 1 fatty acids & 1 phosphoric acid
- (c) 1 glycerol, 2 fatty acids & 1 phosphoric acid
- (d) 2 glycerol, 1 fatty acids & 2 phosphoric acid

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Correct Answer:

☒ A ☐ B ☐ C ☐ D

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Time Remaining: 39/45 (Minutes)

Q.15

Test 4 Biological Molecules

Biology Unit Wise

In phospholipids, a nitrogenous base (e.g., choline) is attached to _____ in phosphatidic acid:

- (a) Phosphoric acid (b) Glycerol
(c) Fatty acids (d) All the above

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Correct Answer:

☒ A ☐ B ☐ C ☐ D

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Time Remaining: 38/45 (Minutes)**Q.16****Test 4 Biological Molecules****Biology Unit Wise****Which of the following correctly describes the properties of acetic acid?**

- (a) Highest melting point, maximum solubility
- (b) Lowest melting point, minimum solubility
- (c) Highest melting point, minimum solubility
- (d) Lowest melting point, maximum solubility

STAR INSTITUTE LAHORE[Click Here if Image Doesn't Load](#)**Correct Answer:**☒ A ☐ B ☐ C ☐ D**Next****Back**



Time Remaining: 38/45 (Minutes)

Q.17

Test 4 Biological Molecules

Biology Unit Wise

A compound related to fatty acid is:

- (a) Dextrin (b) Chitin
(c) Lecithin (d) Lignin

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Correct Answer:

☒ A ☐ B ☐ C ☐ D

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Time Remaining: 38/45 (Minutes)

Q.18**Test 4 Biological Molecules****Biology Unit Wise**

Alcohol + Acetic acid \longrightarrow ? + **Water**

- (a) Aldehyde group (b) Fatty acid
(c) Ester (d) Lipid

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Correct Answer:

☒ A ☐ B ☐ C ☐ D

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Time Remaining: 37/45 (Minutes)

Q.19

Test 4 Biological Molecules

Biology Unit Wise

_____ the smallest amino acid, has a hydrogen atom as the R group.

- (a) Valine
(c) Glycine

- (b) Proline
(d) Alanine

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Correct Answer:

☒ A ☐ B ☐ C ☐ D

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Time Remaining: 37/45 (Minutes)

Q.20

Test 4 Biological Molecules

Biology Unit Wise

Which about haemoglobin chains is not true?

- (a) It contains 4 polypeptide chains
- (b) It consists of 571 amino acids
- (c) Each β -chain contains 146 amino acids
- (d) It is a protein

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Correct Answer:

☒ A ☐ B ☐ C ☐ D

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Time Remaining: 37/45 (Minutes)

Q.21

Test 4 Biological Molecules

Biology Unit Wise

The most important structure in haemoglobin would be:

- (a) Primary (b) Secondary
(c) Tertiary (d) Quaternary

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Correct Answer:

☒ A ☐ B ☐ C ☐ D

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Time Remaining: 36/45 (Minutes)

Q.22

Test 4 Biological Molecules

Biology Unit Wise

A dipeptide has:

- (a) 2 amino acids and 1 peptide bond
- (b) 2 amino acids and 2 peptide bonds
- (c) 2 amino acids and 3 peptide bonds
- (d) 2 amino acids and 4 peptide bonds

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Correct Answer:



A



B



C



D

Next

Back



Time Remaining: 36/45 (Minutes)

Q.23

Test 4 Biological Molecules

Biology Unit Wise

Myoglobin is a protein with _____ structure:

- (a) Primary (b) Secondary
(c) Tertiary (d) Quaternary

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Correct Answer:

☒ A ☐ B ☐ C ☐ D

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Time Remaining: 36/45 (Minutes)

Q.24**Test 4 Biological Molecules****Biology Unit Wise**

Which of the following is not an amino acid?

- (a) Arginine (b) Lysine
(c) Thymine (d) Tryptophan

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Correct Answer:

☒ A ☐ B ☐ C ☐ D

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No internet connection

Time Remaining: 35/45 (Minutes)

Q.25

Test 4 Biological Molecules

Biology Unit Wise

A protein with only one polypeptide lacks which structure:

- (a) Primary
(c) Tertiary

- (b) Secondary
(d) Quaternary


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Correct Answer:

☒ A ☐ B ☐ C ☐ D

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Time Remaining: 35/45 (Minutes)

Q.26

Test 4 Biological Molecules

Biology Unit Wise

The sequence of atoms in a peptide bond is:

(a) $-C-N-N-C-$

(b) $-C-C-N-C-$

(c) $-C-C-C-N-$

(d) $-N-C-C-C-$

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Correct Answer:



A



B



C



D

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Time Remaining: 35/45 (Minutes)

Q.27

Test 4 Biological Molecules

Biology Unit Wise

The insulin has two polypeptide chains α & β . The number of amino acids in each chain is

(a) $\alpha=21$, $\beta=30$

(b) $\alpha=30$, $\beta=21$

(c) $\alpha=141$, $\beta=146$

(d) $\alpha=146$, $\beta=141$

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Correct Answer:



A



B



C



D

Next

Back

Time Remaining: 35/45 (Minutes)

Q.28

Test 4 Biological Molecules

Biology Unit Wise

A sequence of amino acids may end in either an amino group ($-\text{NH}_2$) or a carboxyl group ($-\text{COOH}$). What is the theoretical number of chemically different dipeptides that may be assembled from 20 different amino acids?

- (a) 40
(c) 160

- (b) 170
(d) 400

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Correct Answer:



A



B



C



D

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Time Remaining: 35/45 (Minutes)

Q.29

Test 4 Biological Molecules

Biology Unit Wise

Ribonucleic acid is a polymer of purine and pyrimidine ribonucleotides linked together by:

- (a) Hydrogen bond
- (b) Ester bonds
- (c) 3'-5' Phosphodiester linkages
- (d) 5'-3' Phosphodiester linkages

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Correct Answer:

☒ A ☐ B ☐ C ☐ D

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Time Remaining: 34/45 (Minutes)

Q.30

Test 4 Biological Molecules

Biology Unit Wise

In terms of DNA and RNA structure, what is a nucleotide?

- (a) A nucleotide is a heterocyclic base
- (b) A nucleotide is a sugar molecule covalently bonded to a heterocyclic base
- (c) A nucleotide is a sugar molecule bonded to phosphate group/s and a heterocyclic base
- (d) A nucleotide is a heterocyclic base bonded to phosphate group/s

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Correct Answer:



A



B



C



D

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Time Remaining: 34/45 (Minutes)**Q.31****Test 4 Biological Molecules****Biology Unit Wise**

The molecular formula for glucose is $C_6H_{12}O_6$. What would be the molecular formula for a molecule made by linking three glucose molecules together by dehydration reactions?

- (a) $C_{18}H_{36}O_{18}$ (b) $C_{18}H_{32}O_{16}$
(c) $C_6H_{10}O_5$ (d) $C_{18}H_{30}O_{15}$

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Time Remaining: 34/45 (Minutes)

Q.32

Test 4 Biological Molecules

Biology Unit Wise

Starch is composed of:

- (a) Branched amylopectin and branched amylose
- (b) Unbranched amylopectin and unbranched amylose
- (c) Branched amylopectin and unbranched amylose
- (d) Unbranched amylopectin and branched amylose

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Correct Answer:

☒ A ☐ B ☐ C ☐ D

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Time Remaining: 33/45 (Minutes)

Q.33

Test 4 Biological Molecules

Biology Unit Wise

A glycosidic linkage is analogous to which of the following in proteins?

- (a) An amino group (b) A peptide bond
(c) A disulfide bond (d) A β -pleated sheet

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Correct Answer:

☒ A ☐ B ☐ C ☐ D

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Time Remaining: 33/45 (Minutes)

Q.34

Test 4 Biological Molecules

Biology Unit Wise

Relative abundance of RNA in cell:

- (a) tRNA>rRNA>mRNA
- (b) mRNA>tRNA>rRNA
- (c) rRNA>tRNA>mRNA
- (d) rRNA>mRNA>tRNA

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Correct Answer:



A



B



C



D

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Time Remaining: 33/45 (Minutes)

Q.35

Test 4 Biological Molecules

Biology Unit Wise

Which of the following statement is incorrect regarding RNA?

- (a) RNA is single stranded
- (b) RNA is the only genetic material in viruses
- (c) RNA is the genetic material in some viruses
- (d) All of these

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Correct Answer:



A



B



C



D

Next

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Time Remaining: 32/45 (Minutes)

Q.36

Test 4 Biological Molecules

Biology Unit Wise

The bonds involved in RNA:

- (a) Hydrogen bonds
- (b) Phosphodiester bonds
- (c) Both 'a' & 'b'
- (d) None of these

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Correct Answer:



A



B



C



D

Next

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Time Remaining: 31/45 (Minutes)

Q.37

Test 4 Biological Molecules

Biology Unit Wise

Saturated fats:

- (a) Are more common in plants than in animals
- (b) Have multiple double bonds in the carbon chains of their fatty acids
- (c) Are generally liquid at room temperature
- (d) Contain more hydrogen than unsaturated fats that consist of the same number of carbon atoms

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Correct Answer:

☒ A ☐ B ☐ C ☐ D

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Time Remaining: 31/45 (Minutes)

Q.38

Test 4 Biological Molecules

Biology Unit Wise

Adenosine diphosphate contains _____ high-energy bond(s):

- (a) One
(c) Three

- (b) Two
(d) Four

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Correct Answer:

☒ A ☐ B ☐ C ☐ D

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No internet connection

Time Remaining: 31/45 (Minutes)**Q.39****Test 4 Biological Molecules****Biology Unit Wise**

The chemical properties of amino acids are determined by their:

- (a) Amino group
- (b) Carboxylic acid group
- (c) Alkyl group
- (d) Alpha carbon

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Time Remaining: 31/45 (Minutes)

Q.40

Test 4 Biological Molecules

Biology Unit Wise

Hemoglobin is:

- (a) A tertiary protein with two polypeptides
- (b) A quaternary protein with two polypeptides
- (c) A tertiary protein with four polypeptides
- (d) A quaternary protein with four polypeptides

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Correct Answer:

☒ A ☐ B ☐ C ☐ D

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02

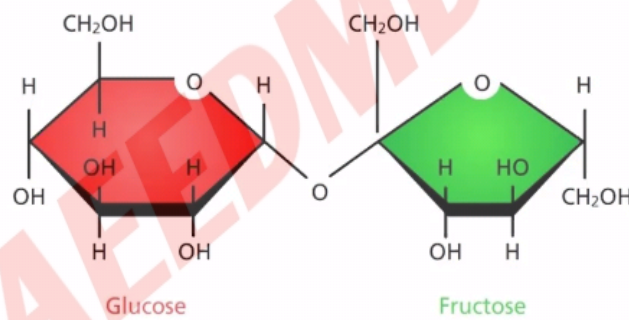
Total number of 'OH' in sucrose is:

(a) 11

(b) 8

(c) 10

(d) 9



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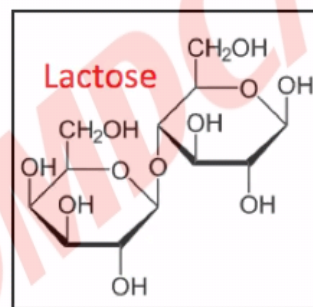
Participants 28

More

03

Milk sugar is:

- (a) Monosaccharide
- (b) Disaccharide**
- (c) Oligosaccharide
- (d) Polysaccharide



Learning Outcome

Lactose = Glucose + Galactose

04

Which of the following carbohydrate does not give colour with iodine?

- (a) Amylose
(b) Amylopectin
(c) Glycogen
(d) Cellulose

Learning Outcome

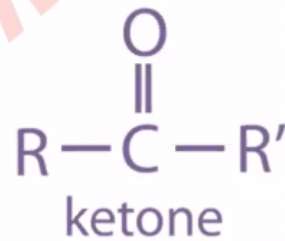
- Starches give blue colour with iodine.
- Glycogen gives red colour with iodine.
- Cellulose gives no colour with iodine.



05

A reducing sugar is that which has:

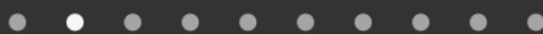
- (a) Free aldehyde group
- (b) Free aldehyde or ketone group**
- (c) Free ketone group
- (d) None of these



06

Which biomolecule has most of the carbon of biosphere?

- (a) Chitin
- (b) Starch
- (c) Cellulose**
- (d) Glycogen



07

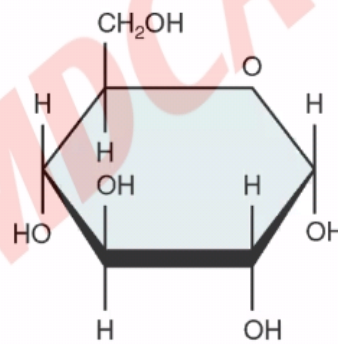
Tetroses are rare in nature and they occur in some:

- (a) Fungi
- (b) Bacteria**
- (c) Protists
- (d) Bryophytes

08

From the biological point of view, the most important hexose is:

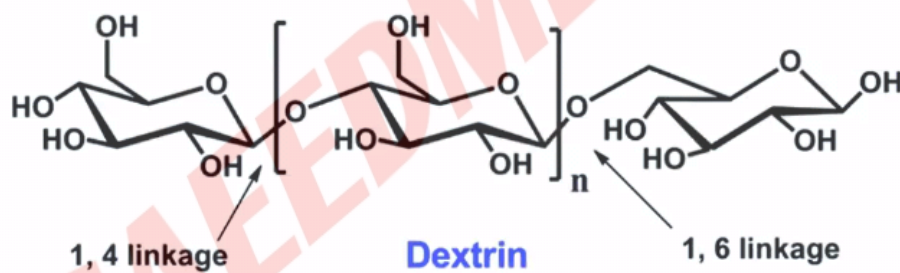
- (a) **Glucose**
- (b) Fructose
- (c) Mannose
- (d) Galactose



09

Dextrins are:

- (a) Proteins (b) Lipids
(c) Derived proteins **(d) Carbohydrates**



10

The most synthesized substance in nature by living organisms is:

- (a) Chitin
- (b) Starch
- (c) Cellulose**
- (d) Glycogen

11

How many molecules of water are released during the polymerization of a 20 monomer-long cellulose molecule?

(a) 10

(b) 19

(c) 20

(d) 40

12

One which is not the true polymer of its monomers:

- (a) DNA
- (b) Proteins
- (c) Lipids**
- (d) None of these

13

Lipids are insoluble in water because lipid molecules are:

- (a) Hydrophilic
- (b) Hydrophobic**
- (c) Neutral
- (d) None of these

14

Phosphatidic acid is composed of:

- (a) 2 glycerol, 2 fatty acids & 1 phosphoric acid
- (b) 2 glycerol, 1 fatty acids & 1 phosphoric acid
- (c) 1 glycerol, 2 fatty acids & 1 phosphoric acid**
- (d) 2 glycerol, 1 fatty acids & 2 phosphoric acid

See PAGE # 26 of F.Sc Part 1 Text Book

15

In phospholipids, a nitrogenous base (e.g. choline) is attached to _____ in phosphatidic acid:

(a) Phosphoric acid

(b) Glycerol

(c) Fatty acids

(d) All the above

See PAGE # 26 of F.Sc Part 1 Text Book

16

Which of the following correctly describes the properties of acetic acid?

- (a) Highest melting point, maximum solubility
- (b) Lowest melting point, minimum solubility**
- (c) Highest melting point, minimum solubility
- (d) Lowest melting point, maximum solubility

Learning Outcome

Solubility and melting points of fatty acids in the organic solvents increase with increasing number of carbon atoms in chain.

17

A compound related to fatty acid is:

- (a) Dextrin
- (b) Chitin
- (c) Lecithin**
- (d) Lignin

18

Alcohol + Acetic acid \longrightarrow ? + Water

(a) Aldehyde group

(b) Fatty acid

(c) Ester

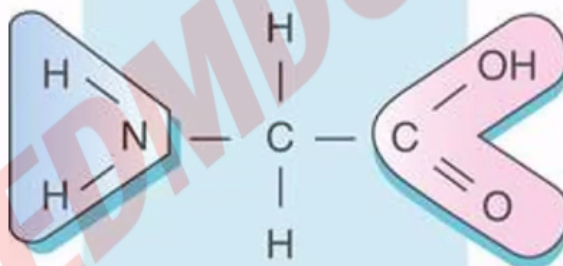
(d) Lipid



19

_____ the smallest amino acid, has a hydrogen atom as the R group.

- (a) Valine
- (b) Proline
- (c) Glycine**
- (d) Alanine



20

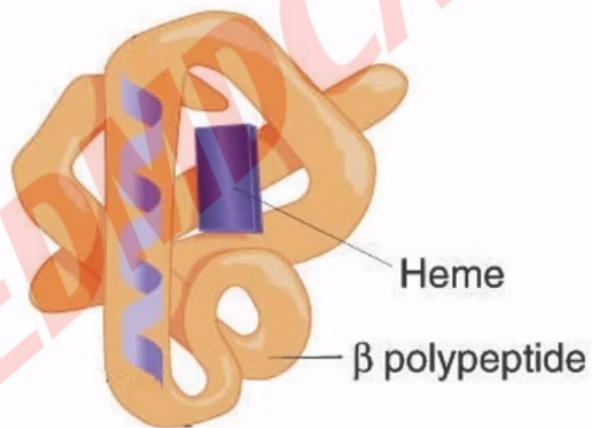
Which about haemoglobin chains is not true?

- (a) It contains 4 polypeptide chains
- (b) It consists of 571 amino acids**
- (c) Each β -chain contains 146 amino acids
- (d) It is a protein

21

The most important structure in haemoglobin would be:

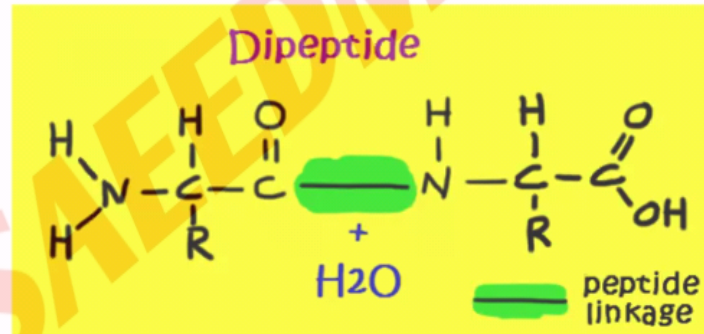
- (a) Primary
- (b) Secondary
- (c) Tertiary**
- (d) Quaternary



22

A dipeptide has:

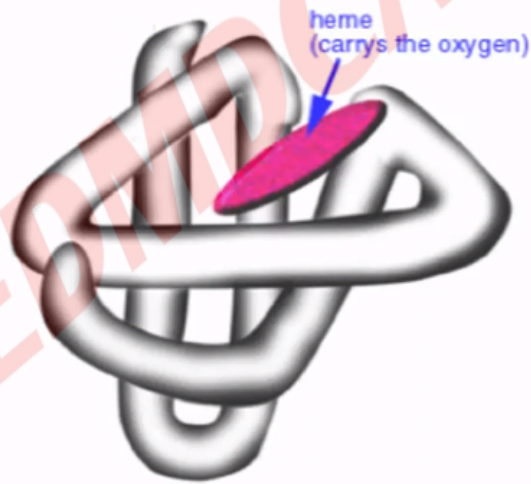
- (a) 2 amino acids and 1 peptide bond
- (b) 2 amino acids and 2 peptide bonds
- (c) 2 amino acids and 3 peptide bonds
- (d) 2 amino acids and 4 peptide bonds



23

Myoglobin is a protein with _____ structure:

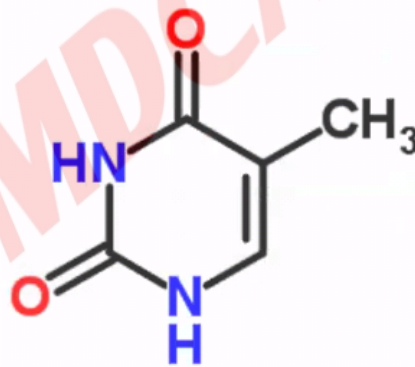
- (a) Primary
- (b) Secondary
- (c) Tertiary**
- (d) Quaternary



24

Which of the following is not an amino acid?

- (a) Arginine
- (b) Lysine
- (c) Thymine**
- (d) Tryptophan

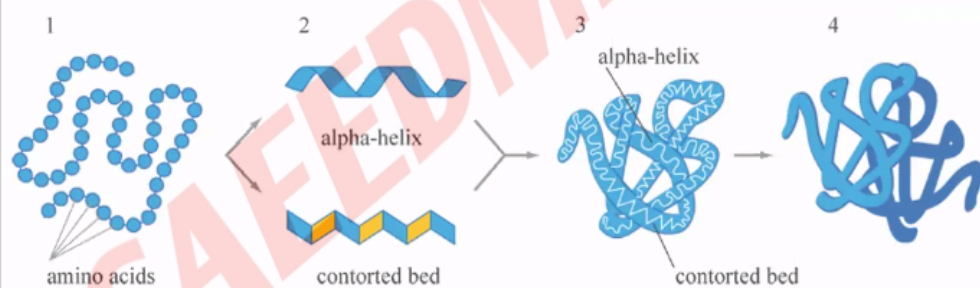


25

A protein with only one polypeptide lacks which structure:

- (a) Primary
(c) Tertiary

- (b) Secondary
(d) Quaternary



27

The insulin has two polypeptide chains α & β . The number of amino acids in each chain is:

(a) $\alpha=21$, $\beta=30$

(b) $\alpha=30$, $\beta=21$

(c) $\alpha=141$, $\beta=146$

(d) $\alpha=146$, $\beta=141$

28

A sequence of amino acids may end in either an amino group ($-\text{NH}_2$) or a carboxyl group ($-\text{COOH}$). What is the theoretical number of chemically different **dipeptides** that may be assembled from **20** different amino acids?

A, G, C, U

- (a) 40
- (b) 170
- (c) 160
- (d) 400

$$\begin{aligned} (20)^2 \\ &= 20 \times 20 \\ &= 400 \end{aligned}$$

$$\begin{aligned} 4^3 \\ &= 4 \times 4 \times 4 \\ &= 64 \end{aligned}$$

29

Ribonucleic acid is a polymer of purine and pyrimidine ribonucleotides linked together by:

- (a) Hydrogen bond
- (b) Ester bonds
- (c) 3'-5' Phosphodiester linkages
- (d) 5'-3' Phosphodiester linkages**

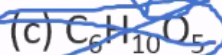
30

In terms of DNA and RNA structure, what is a nucleotide?

- (a) A nucleotide is a heterocyclic base
- (b) A nucleotide is a sugar molecule covalently bonded to a heterocyclic base
- (c) A nucleotide is a sugar molecule bonded to phosphate group/s and a heterocyclic base**
- (d) A nucleotide is a heterocyclic base bonded to phosphate group(s)

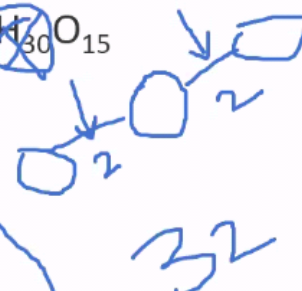
31

The molecular formula for glucose is $C_6H_{12}O_6$. What would be the molecular formula for a molecule made by linking three glucose molecules together by dehydration reactions?



$$C_6 \times 3 = 18$$

$$H_{12} \times 3 = 36$$



32

Starch is composed of:

- (a) Branched amylopectin and branched amylose
- (b) Unbranched amylopectin and unbranched amylose
- (c) Branched amylopectin and unbranched amylose**
- (d) Unbranched amylopectin and branched amylose

33

A glycosidic linkage is analogous to which of the following in proteins?

- (a) An amino group
- (b) A peptide bond**
- (c) A disulfide bond
- (d) A β -pleated sheet

34

Relative abundance of RNA in cell:

(a) tRNA>rRNA>mRNA

(b) mRNA>tRNA>rRNA

(c) rRNA>tRNA>mRNA

(d) rRNA>mRNA>tRNA

Learning Outcome

rRNA = 80%

tRNA = 10-20%

mRNA = 3-4%

35

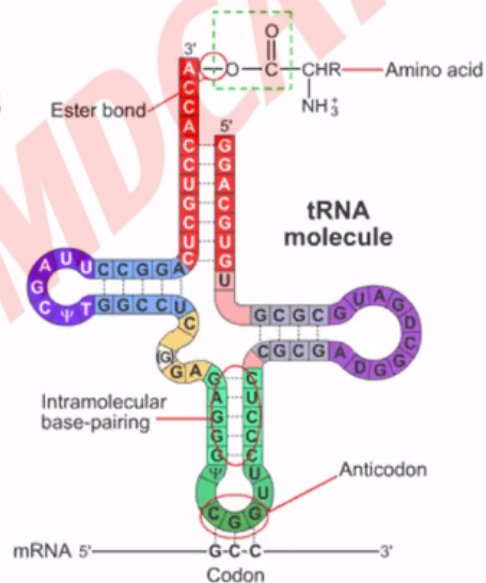
Which of the following statement is incorrect regarding RNA?

- (a) RNA is single stranded
- (b) RNA is the only genetic material in viruses**
- (c) RNA is the genetic material in some viruses
- (d) All of these

36

The bonds involved in RNA:

- (a) Hydrogen bonds
- (b) Phosphodiester bonds**
- (c) Both 'a' & 'b'
- (d) None of these

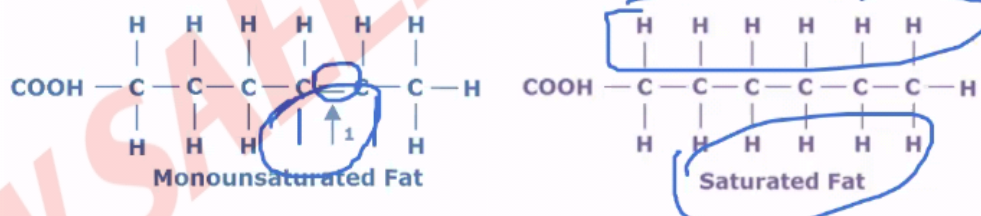


37

Saturated fats:

- (a) Are more common in plants than in animals
- (b) Have multiple double bonds in the carbon chains of their fatty acids
- (c) Are generally liquid at room temperature

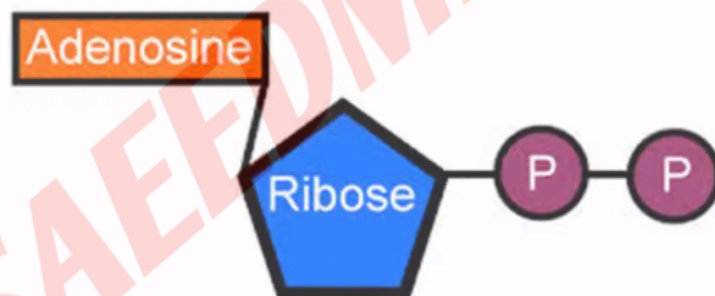
(d) Contain more hydrogen than unsaturated fats that consist of the same number of carbon atoms



38

Adenosine diphosphate contains _____ high-energy bond(s):

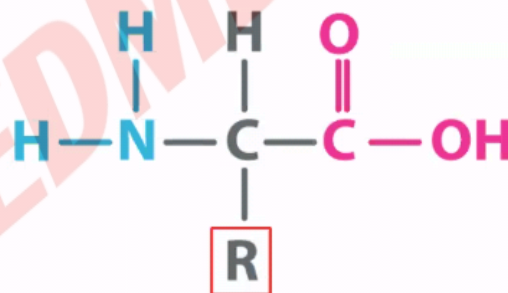
- (a) One
(b) Two
(c) Three
(d) Four



39

The chemical properties of amino acids are determined by their:

- (a) Amino group
- (b) Carboxylic acid group
- (c) Alkyl group**
- (d) Alpha carbon



40

Hemoglobin is:

- (a) A tertiary protein with two polypeptides
- (b) A quaternary protein with two polypeptides
- (c) A tertiary protein with four polypeptides
- (d) A quaternary protein with four polypeptides**

